

TABLE 21

State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2020

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other ^a
United States ^b	2,444,981,212	142,105,027	390,826,851	448,510,450	1,027,756,537	279,442,920	156,339,427
Alabama	25,695,555	0	117,181	5,930,160	2,000,000	3,601,526	14,046,688
Choctawhatchee, Pea and Yellow Rivers Watershed Management Authority	4,000	0	0	4,000	0	0	0
Commerce, Department of	3,000,000	0	0	0	2,000,000	0	1,000,000
Conservation and Natural Resources, Department of; Wildlife and Freshwater Fisheries Division	1,930,023	0	0	1,930,023	0	0	0
Education, Department of	9,755,650	0	0	0	0	0	9,755,650
Forensic Sciences, Department of	262,993	0	0	0	0	0	262,993
Geological Survey	2,470,957	0	117,181	2,353,776	0	0	0
Marine Environmental Science Consortium, Dauphin Island Sea Lab	1,585,939	0	0	1,585,939	0	0	0
Supercomputer Authority	3,028,045	0	0	0	0	0	3,028,045
Transportation, Department of	3,657,948	0	0	56,422	0	3,601,526	0
Alaska	15,193,507	0	500,000	8,878,600	474,542	5,340,365	0
Environmental Conservation, Department of	474,542	0	0	0	474,542	0	0
Housing Finance Corporation	500,000	0	500,000	0	0	0	0
Natural Resources, Department of; Division of Geological and Geophysical Surveys	8,878,600	0	0	8,878,600	0	0	0
Railroad Corporation	3,824,365	0	0	0	0	3,824,365	0
Transportation and Public Facilities, Department of	1,516,000	0	0	0	0	1,516,000	0
Arizona	16,010,502	1,041,995	0	1,849,760	11,085,857	1,473,269	559,621
Agriculture, Department of	1,220,812	1,041,995	0	178,817	0	0	0
Game and Fish Department	1,361,376	0	0	1,361,376	0	0	0
Health Services, Department of	11,085,857	0	0	0	11,085,857	0	0
Juvenile Corrections, Department of	559,621	0	0	0	0	0	559,621
Transportation, Department of	1,782,836	0	0	309,567	0	1,473,269	0
Arkansas	19,921,168	12,606,385	502,762	2,455,409	2,813,075	690,108	853,429
Agriculture, Department of	251,460	251,460	0	0	0	0	0
Beef Council	40,223	40,223	0	0	0	0	0
Corn and Grain Sorghum Board	965,000	965,000	0	0	0	0	0
Economic Development Commission	5,446,430	50,647	502,762	1,226,517	2,813,075	0	853,429
Game and Fish Commission	954,281	0	0	954,281	0	0	0
Natural Heritage Commission	274,611	0	0	274,611	0	0	0
Rice Research and Promotion Board	8,623,500	8,623,500	0	0	0	0	0
Soybean Promotion Board	2,625,555	2,625,555	0	0	0	0	0
Transportation, Department of	690,108	0	0	0	0	690,108	0
Wheat Promotion Board	50,000	50,000	0	0	0	0	0
California	533,900,597	7,116,436	256,532,543	46,017,594	171,494,281	41,248,806	11,490,937

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Air Resources Board	16,709,642	0	0	16,709,642	0	0	0
Children and Families Commission (First 5 California)	3,518,680	0	0	0	565,000	0	2,953,680
Conservation, Department of	1,143,000	0	0	538,000	0	0	605,000
Corrections and Rehabilitation, Department of	1,974,791	0	0	0	0	0	1,974,791
Covered California	3,209,181	0	0	0	3,209,181	0	0
Delta Stewardship Council	5,602,379	0	0	5,602,379	0	0	0
Earthquake Authority	2,664,000	0	0	0	0	0	2,664,000
Energy Commission	219,532,543	0	219,532,543	0	0	0	0
Environmental Health Hazard Assessment, Office of	19,726,954	0	0	0	19,726,954	0	0
Food and Agriculture, Department of	4,213,376	4,213,376	0	0	0	0	0
Forestry and Fire Protection, Department of	3,500,000	0	0	3,500,000	0	0	0
Horse Racing Board	627,442	627,442	0	0	0	0	0
Housing and Community Development, Department of	75,000	0	0	0	0	0	75,000
Institute for Regenerative Medicine	127,546,003	0	0	0	127,546,003	0	0
Mental Health Services Oversight and Accountability Commission	2,500,000	0	0	0	2,500,000	0	0
Motor Vehicles, Department of	1,401,521	0	0	0	1,401,521	0	0
Pesticide Regulation, Department of	14,088,416	2,275,618	0	1,974,574	9,838,224	0	0
Public Health, Department of	3,370,497	0	0	394	3,370,103	0	0
Public Utilities Commission, Executive Division	37,000,000	0	37,000,000	0	0	0	0
Rehabilitation, Department of	2,814,595	0	0	0	0	0	2,814,595
State Coastal Conservancy	1,620,693	0	0	1,620,693	0	0	0
State Water Resources Control Board	17,957,684	0	0	14,620,389	3,337,295	0	0
Transportation, Department of	41,248,806	0	0	0	0	41,248,806	0
Water Resources, Department of	1,855,394	0	0	1,451,523	0	0	403,871
Colorado	34,365,638	1,037,559	3,347,250	11,609,704	8,061,107	3,268,633	7,041,385
Agriculture, Department of	635,148	375,249	0	259,899	0	0	0
Economic Development and International Trade, Office of	15,456,483	440,000	3,234,790	275,463	6,597,493	430,000	4,478,737
Higher Education Competitive, Research Authority	2,455,224	0	66,435	800,000	0	0	1,588,789
Higher Education, Department of	124,839	0	0	0	0	0	124,839
Natural Resources, Department of	8,002,949	0	46,025	7,929,398	0	5,000	22,526
Public Health and Environment, Department of	3,808,558	0	0	2,344,944	1,463,614	0	0
Public Safety, Department of	826,494	0	0	0	0	0	826,494
Transportation, Department of	2,833,633	0	0	0	0	2,833,633	0

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State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other ^a
Wine Industry Development Board	222,310	222,310	0	0	0	0	0
Connecticut	58,810,853	3,856,987	4,083,058	11,473,607	29,124,362	2,734,495	7,538,344
Agricultural Experiment Station	12,445,226	3,856,987	0	3,975,471	4,612,768	0	0
Children and Families, Department of	604,461	0	0	0	0	0	604,461
Education, Department of	429,097	0	0	0	0	0	429,097
Energy and Environmental Protection, Department of	7,498,136	0	0	7,498,136	0	0	0
Innovation Inc.	27,245,173	0	4,083,058	0	16,657,329	0	6,504,786
Mental Health and Addiction Services, Department of	6,310,349	0	0	0	6,310,349	0	0
Public Health, Department of	27,000	0	0	0	27,000	0	0
Social Services, Department of	1,516,916	0	0	0	1,516,916	0	0
Transportation, Department of	2,734,495	0	0	0	0	2,734,495	0
Delaware	3,598,156	0	20,800	2,241,188	0	1,336,168	0
Geological Survey	2,183,965	0	0	2,082,188	0	101,777	0
Natural Resources and Environmental Control, Department of	159,000	0	0	159,000	0	0	0
Sustainable Energy Utility	20,800	0	20,800	0	0	0	0
Transportation, Department of	1,234,391	0	0	0	0	1,234,391	0
District of Columbia	5,860,668	0	520,000	2,920,000	1,929,090	239,295	252,283
Energy and Environment, Department of	1,550,000	0	520,000	920,000	0	0	110,000
Forensic Sciences, Department of	114,283	0	0	0	61,500	0	52,783
Health, Department of	1,957,090	0	0	0	1,867,590	0	89,500
Transportation, Department of	239,295	0	0	0	0	239,295	0
Water and Sewer Authority	2,000,000	0	0	2,000,000	0	0	0
Florida	184,600,202	21,100,902	784,693	56,851,522	92,452,504	13,322,175	88,406
Agriculture and Consumer Services, Department of	22,450,768	20,450,902	784,693	354,857	860,316	0	0
Business and Professional Regulation, Department of	88,406	0	0	0	0	0	88,406
Citrus, Department of	1,127,588	650,000	0	0	477,588	0	0
Environmental Protection, Department of	217,759	0	0	217,759	0	0	0
Fish and Wildlife Conservation Commission	56,278,906	0	0	56,278,906	0	0	0
Health, Department of	91,114,600	0	0	0	91,114,600	0	0
Space Florida	1,299,010	0	0	0	0	1,299,010	0
Transportation, Department of	12,023,165	0	0	0	0	12,023,165	0
Georgia	15,877,238	255,642	5,825,649	1,164,256	0	8,599,878	31,813
Natural Resources, Department of	997,526	0	0	997,526	0	0	0
Seed Development Commission	255,642	255,642	0	0	0	0	0
Southern States Energy Board	8,092,378	0	5,825,649	166,730	0	2,068,186	31,813
Transportation, Department of	6,531,692	0	0	0	0	6,531,692	0
Hawaii	11,122,545	1,977,000	6,466,637	385,278	0	487,500	1,806,130

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Agriculture, Department of	702,000	702,000	0	0	0	0	0
Business, Economic Development, and Tourism, Department of	7,297,767	0	5,491,637	0	0	0	1,806,130
Land and Natural Resources, Department of	385,278	0	0	385,278	0	0	0
Natural Energy Laboratory	2,250,000	1,275,000	975,000	0	0	0	0
Transportation, Department of	487,500	0	0	0	0	487,500	0
Idaho	21,882,976	7,279,087	0	10,831,981	212,000	3,317,794	242,114
Agriculture, Department of	900,539	900,539	0	0	0	0	0
Alfalfa and Clover Seed Commission	1,500	1,500	0	0	0	0	0
Barley Commission	238,859	238,859	0	0	0	0	0
Bean Commission	28,220	28,220	0	0	0	0	0
Beef Council	88,187	88,187	0	0	0	0	0
Commerce, Department of	953,711	251,514	0	0	212,000	248,083	242,114
Dairy West	2,900,000	2,900,000	0	0	0	0	0
Environmental Quality, Department of	450,000	0	0	450,000	0	0	0
Fish and Game, Department of	10,381,981	0	0	10,381,981	0	0	0
Honey Commission	1,500	1,500	0	0	0	0	0
Oilseed Commission	62,000	62,000	0	0	0	0	0
Pea and Lentil Commission	73,418	73,418	0	0	0	0	0
Potato Commission	1,596,042	1,596,042	0	0	0	0	0
Transportation Department	3,069,711	0	0	0	0	3,069,711	0
Wheat Commission	1,137,308	1,137,308	0	0	0	0	0
Illinois	16,055,917	3,140,385	0	0	399,924	9,710,698	2,804,910
Children and Family Services, Department of	2,559,932	0	0	0	0	0	2,559,932
Human Services, Department of	244,978	0	0	0	0	0	244,978
Nutrient Research and Education	3,140,385	3,140,385	0	0	0	0	0
Public Health, Department of	399,924	0	0	0	399,924	0	0
Transportation, Department of	9,710,698	0	0	0	0	9,710,698	0
Indiana	9,591,408	100,000	95,000	141,764	0	8,734,644	520,000
Economic Development Corporation	595,000	0	95,000	0	0	0	500,000
Environmental Management, Department of	56,764	0	0	56,764	0	0	0
Natural Resources, Department of	100,000	100,000	0	0	0	0	0
St. Joseph River Basin Commission	105,000	0	0	85,000	0	0	20,000
Transportation, Department of	8,734,644	0	0	0	0	8,734,644	0
Iowa	12,348,062	60,000	0	4,170,756	0	7,228,882	888,424
Beef Industry Council	60,000	60,000	0	0	0	0	0
Corrections	470,931	0	0	0	0	0	470,931
Human Rights, Criminal and Juvenile Justice Planning, Division of, Department of	417,493	0	0	0	0	0	417,493

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Natural Resources, Department of	4,170,756	0	0	4,170,756	0	0	0
Transportation, Department of	7,228,882	0	0	0	0	7,228,882	0
Kansas	13,152,904	3,675,354	0	4,840,882	0	3,637,912	998,756
Corn Commission	871,765	871,765	0	0	0	0	0
Grain Sorghum Commission	445,300	445,300	0	0	0	0	0
Soybean Commission	1,200,000	1,200,000	0	0	0	0	0
State Board of Regents	998,756	0	0	0	0	0	998,756
Sunflower Commission	20,000	20,000	0	0	0	0	0
Transportation, Department of	3,637,912	0	0	0	0	3,637,912	0
Water Office	429,361	0	0	429,361	0	0	0
Wheat Commission	1,138,289	1,138,289	0	0	0	0	0
Wildlife, Parks, and Tourism, Department of	4,411,521	0	0	4,411,521	0	0	0
Kentucky	26,782,125	540,182	150,000	2,258,368	15,023,579	7,158,996	1,651,000
Behavioral Health, Developmental and Intellectual Disabilities	67,500	0	0	0	67,500	0	0
Economic Development, Cabinet for	3,051,000	0	150,000	0	1,250,000	0	1,651,000
Fish and Wildlife Resources, Department of	2,008,546	0	0	2,008,546	0	0	0
Horse Racing Commission	430,748	0	0	0	430,748	0	0
Nature Preserves, Office of	34,200	0	0	34,200	0	0	0
Postsecondary Education, Council on	9,939,022	0	0	0	9,939,022	0	0
Public Health, Department for	3,336,309	0	0	0	3,336,309	0	0
Public Service Commission	21,000	0	0	21,000	0	0	0
Soybean Promotion Board	658,864	540,182	0	118,682	0	0	0
Transportation Cabinet	7,234,936	0	0	75,940	0	7,158,996	0
Louisiana	32,360,516	636,415	2,613,811	12,455,929	2,800,226	9,200,000	4,654,135
Board of Regents	12,728,300	636,415	2,613,811	2,418,377	2,800,226	0	4,259,471
Coastal Protection and Restoration Authority	3,436,344	0	0	3,436,344	0	0	0
Education, Department of	394,664	0	0	0	0	0	394,664
Transportation and Development, Department of	9,200,000	0	0	0	0	9,200,000	0
Wildlife and Fisheries, Department of	6,601,208	0	0	6,601,208	0	0	0
Maine	29,035,990	3,329,336	0	7,070,173	9,463,845	824,000	8,348,636
Agriculture, Conservation and Forestry, Department of	1,511,473	928,000	0	583,473	0	0	0
Inland Fisheries and Wildlife, Department of	1,080,841	0	0	1,080,841	0	0	0
Marine Resources, Department of	2,458,575	0	0	2,458,575	0	0	0
Technology Institute	23,161,101	2,401,336	0	2,947,284	9,463,845	0	8,348,636
Transportation, Department of	824,000	0	0	0	0	824,000	0
Maryland	33,407,022	269,157	1,168,566	1,184,063	24,466,432	3,660,436	2,658,368
Education, Department of	1,160,456	0	0	0	0	0	1,160,456
Energy Administration	1,026,832	0	1,000,000	26,832	0	0	0

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Health and Mental Hygiene, Department of	15,000,000	0	0	0	15,000,000	0	0
Natural Resources, Department of	607,906	269,157	168,566	170,183	0	0	0
Technology Development Corporation	10,964,344	0	0	0	9,466,432	0	1,497,912
Transportation, Department of	4,647,484	0	0	987,048	0	3,660,436	0
Massachusetts	31,700,411	0	4,183,011	10,052,872	6,849,528	3,840,000	6,775,000
Clean Energy Technology Center	4,008,011	0	4,008,011	0	0	0	0
Environmental Protection, Department of	309,872	0	0	309,872	0	0	0
Fish and Game, Department of	9,493,000	0	0	9,493,000	0	0	0
Gaming Commission	2,670,000	0	0	0	2,170,000	0	500,000
Life Sciences Center	1,030,299	0	0	0	1,030,299	0	0
Massventures	3,100,000	0	0	0	0	0	3,100,000
Mental Health, Department of	1,800,000	0	0	0	1,800,000	0	0
Public Health, Department of	1,849,229	0	0	0	1,849,229	0	0
Technology Park Corporation	3,175,000	0	0	0	0	0	3,175,000
Transportation, Department of	4,065,000	0	125,000	100,000	0	3,840,000	0
Water Resources Authority	200,000	0	50,000	150,000	0	0	0
Michigan	11,191,816	3,316,092	0	1,265,405	0	6,610,319	0
Agriculture and Rural Development, Department of	3,316,092	3,316,092	0	0	0	0	0
Environmental, Great Lakes and Energy, Department of	1,265,405	0	0	1,265,405	0	0	0
Transportation, Department of	6,610,319	0	0	0	0	6,610,319	0
Minnesota	20,511,698	5,526,168	0	3,365,930	0	11,619,600	0
Agriculture, Department of	6,203,140	5,526,168	0	676,972	0	0	0
Forest Resources Council	150,000	0	0	150,000	0	0	0
Natural Resources, Department of	1,941,631	0	0	1,941,631	0	0	0
Pollution Control Agency	25,981	0	0	25,981	0	0	0
Transportation, Department of	12,190,946	0	0	571,346	0	11,619,600	0
Mississippi	10,268,396	1,213,684	0	4,637,046	0	4,417,666	0
Agriculture and Commerce, Department of	180,501	180,501	0	0	0	0	0
Environmental Quality, Department of	1,804,582	0	0	1,804,582	0	0	0
Gulf States Marine Fisheries Commission	1,100,424	1,033,183	0	67,241	0	0	0
Marine Resources, Department of	1,060,182	0	0	1,060,182	0	0	0
Transportation, Department of	4,417,666	0	0	0	0	4,417,666	0
Wildlife, Fisheries, and Parks, Department of	1,705,041	0	0	1,705,041	0	0	0
Missouri	14,826,364	911,532	500,000	11,624,124	233,307	1,557,401	0
Agriculture, Department of	95,763	75,329	0	20,434	0	0	0
Conservation, Department of	10,860,153	0	0	10,860,153	0	0	0
Health and Senior Services, Department of	29,761	0	0	0	29,761	0	0

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Mental Health, Department of	121,250	0	0	0	121,250	0	0
Natural Resources, Department of	743,537	0	0	743,537	0	0	0
Technology Corporation	582,296	0	500,000	0	82,296	0	0
Transportation, Department of	1,557,401	0	0	0	0	1,557,401	0
Wine and Grape Board	836,203	836,203	0	0	0	0	0
Montana	13,131,022	3,566,938	0	7,753,095	0	1,810,989	0
Agriculture, Department of	3,566,938	3,566,938	0	0	0	0	0
Environmental Quality, Department of	92,296	0	0	92,296	0	0	0
Fish, Wildlife and Parks, Department of	7,640,799	0	0	7,640,799	0	0	0
Natural Resources and Conservation, Department of	20,000	0	0	20,000	0	0	0
Transportation, Department of	1,810,989	0	0	0	0	1,810,989	0
Nebraska	32,423,818	2,453,010	0	6,941,251	19,977,610	1,985,947	1,066,000
Agriculture, Department of	645,372	645,372	0	0	0	0	0
Corn Board	803,068	803,068	0	0	0	0	0
Dairy Industry Development Board	87,654	87,654	0	0	0	0	0
Dry Bean Commission	290,954	290,954	0	0	0	0	0
Economic Development, Department of	2,184,835	333,875	0	118,352	524,109	142,499	1,066,000
Game and Parks Commission	5,798,854	0	0	5,798,854	0	0	0
Grain Sorghum Board	3,672	3,672	0	0	0	0	0
Health and Human Services, Department of	19,453,501	0	0	0	19,453,501	0	0
Natural Resources, Department of	958,089	0	0	958,089	0	0	0
Transportation, Department of	1,909,404	0	0	65,956	0	1,843,448	0
Wheat Board	288,415	288,415	0	0	0	0	0
Nevada	4,764,898	188,146	0	222,553	0	1,298,811	3,055,388
Agriculture, Department of	188,146	188,146	0	0	0	0	0
Economic Development, Governor's office of	3,055,388	0	0	0	0	0	3,055,388
Transportation, Department of	1,521,364	0	0	222,553	0	1,298,811	0
New Hampshire	8,221,518	113,278	0	113,525	0	661,587	7,333,128
Agriculture, Markets and Food, Department of	146,743	113,278	0	15,640	0	17,825	0
Business and Economic Affairs, Department of	7,275,000	0	0	0	0	0	7,275,000
Transportation, Department of	799,775	0	0	97,885	0	643,762	58,128
New Jersey	23,754,925	0	0	2,206,594	14,879,386	3,125,627	3,543,318
Children and Families, Department of	237,423	0	0	0	0	0	237,423
Corrections, Department of	305,895	0	0	0	0	0	305,895
Environmental Protection, Department of	2,608,000	0	0	1,668,800	939,200	0	0
Health, Department of	940,186	0	0	0	940,186	0	0
Pinelands Commission	537,794	0	0	537,794	0	0	0
Research Initiatives, Office of	13,000,000	0	0	0	13,000,000	0	0

TABLE 21

State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2020

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other ^a
Secretary of Higher Education, Office of	3,000,000	0	0	0	0	0	3,000,000
Transit, New Jersey	511,533	0	0	0	0	511,533	0
Transportation, Department of	2,614,094	0	0	0	0	2,614,094	0
New Mexico	5,227,599	0	169,166	2,147,277	0	2,808,156	103,000
Cultural Affairs, Department of	103,000	0	0	0	0	0	103,000
Game and Fish, Department of	1,000,000	0	0	1,000,000	0	0	0
Transportation, Department of	3,383,320	0	169,166	405,998	0	2,808,156	0
Western State Air Resources Council	741,279	0	0	741,279	0	0	0
New York	453,807,331	7,919,165	65,977,562	30,312,324	313,857,986	9,463,758	26,276,536
Agriculture and Markets, Department of	6,587,196	6,587,196	0	0	0	0	0
Economic Development, Department of	34,942,880	0	2,837,623	0	6,177,192	0	25,928,065
Energy Research and Development Authority	63,800,898	0	54,176,157	5,545,902	0	4,078,839	0
Environmental Conservation, Department of	11,066,820	576,000	0	10,490,820	0	0	0
Health, Department of	74,723,334	378,821	0	2,272,929	72,071,584	0	0
Mental Health, Office of	166,944,173	0	0	0	166,944,173	0	0
People with Developmental Disabilities, Office of	2,136,105	0	0	0	2,081,100	0	55,005
Power Authority	11,111,406	143,118	8,963,782	1,424,177	286,863	0	293,466
Roswell Park Comprehensive Cancer Center	66,297,074	0	0	0	66,297,074	0	0
State Museum	10,578,496	0	0	10,578,496	0	0	0
Thoroughbred Breeding and Development Fund Corp.	234,030	234,030	0	0	0	0	0
Transportation, Department of	5,384,919	0	0	0	0	5,384,919	0
North Carolina	35,892,185	13,961,296	1,500,000	7,263,072	3,810,296	8,877,335	480,186
Agriculture and Consumer Services, Department of	15,422,911	13,922,911	1,500,000	0	0	0	0
Biotechnology Center	3,810,296	0	0	0	3,810,296	0	0
Environmental Quality, Department of	3,621,969	0	0	3,208,242	0	0	413,727
Natural and Cultural Resources, Department of	2,903,776	0	0	2,898,932	0	0	4,844
Transportation, Department of	10,033,233	0	0	1,155,898	0	8,877,335	0
Wine and Grape Growers Council	100,000	38,385	0	0	0	0	61,615
North Dakota	18,065,251	2,955,514	10,111,495	789,902	349,127	3,635,470	223,743
Agriculture, Department of	817,049	467,922	0	0	349,127	0	0
Dairy Promotion Commission	16,000	16,000	0	0	0	0	0
Dry Pea and Lentil Council	80,683	80,683	0	0	0	0	0
Game and Fish Department	789,902	0	0	789,902	0	0	0
Historical Society of North Dakota	223,743	0	0	0	0	0	223,743
Industrial Commission	10,111,495	0	10,111,495	0	0	0	0
Soybean Council	1,163,242	1,163,242	0	0	0	0	0
Transportation, Department of	3,635,470	0	0	0	0	3,635,470	0

TABLE 21

State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2020

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other ^a
Wheat Commission	1,227,667	1,227,667	0	0	0	0	0
Ohio	76,169,661	0	11,929,919	50,405,927	2,752,778	6,249,317	4,831,720
Development Services Agency	63,372,408	0	11,854,876	45,893,034	1,252,778	0	4,371,720
Education, Department of	460,000	0	0	0	0	0	460,000
Environmental Protection Agency	53,352	0	53,352	0	0	0	0
Mental Health and Addictions Services, Department of	1,500,000	0	0	0	1,500,000	0	0
Natural Resources, Department of	3,583,207	0	21,691	3,561,516	0	0	0
Rail Development Commission	220,000	0	0	0	0	220,000	0
Transportation, Department of	6,029,317	0	0	0	0	6,029,317	0
Water Development Authority	951,377	0	0	951,377	0	0	0
Oklahoma	30,050,338	2,158,072	599,094	2,281,991	17,420,143	6,480,977	1,110,061
Advancement of Science and Technology, Center for the	8,704,830	1,703,494	599,094	510,022	4,575,786	663,520	652,914
Agriculture, Food, and Forestry, Department of	454,578	454,578	0	0	0	0	0
Grand River Dam Authority	550,000	0	0	550,000	0	0	0
Health, Department of	544,357	0	0	0	544,357	0	0
Human Services, Department of	457,147	0	0	0	0	0	457,147
Tobacco Settlement Endowment Trust	12,300,000	0	0	0	12,300,000	0	0
Transportation, Department of	5,817,457	0	0	0	0	5,817,457	0
Wildlife Conservation, Department of	1,221,969	0	0	1,221,969	0	0	0
Oregon	30,486,113	706,521	1,590,000	16,706,262	3,100,000	2,460,479	5,922,851
Agriculture, Department of	206,521	206,521	0	0	0	0	0
Business Oregon	9,190,000	500,000	1,590,000	250,000	3,100,000	0	3,750,000
Education, Department of	639,639	0	0	0	0	0	639,639
Environmental Quality, Department of	433,500	0	0	433,500	0	0	0
Fish and Wildlife, Department of	12,424,618	0	0	12,424,618	0	0	0
Forestry, Department of	694,549	0	0	694,549	0	0	0
Geology and Mineral Industries, Department of	496,117	0	0	451,384	0	0	44,733
Human Services, Department of	1,488,479	0	0	0	0	0	1,488,479
Transportation, Department of	2,460,479	0	0	0	0	2,460,479	0
Water Resources Department	1,583,355	0	0	1,583,355	0	0	0
Watershed Enhancement Board	868,856	0	0	868,856	0	0	0
Pennsylvania	103,098,941	3,877,434	837,000	8,868,958	73,605,865	3,934,697	11,974,987
Agriculture, Department of	3,877,434	3,877,434	0	0	0	0	0
Community and Economic Development, Department of	31,350,000	0	837,000	0	18,000,000	721,000	11,792,000
Conservation and Natural Resources, Department of	1,248	0	0	1,248	0	0	0
Environmental Protection, Department of	894,656	0	0	894,656	0	0	0

TABLE 21

State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2020

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other ^a
Fish and Boat Commission	270,914	0	0	270,914	0	0	0
Game Commission	9,876,885	0	0	7,367,140	2,326,758	0	182,987
Health, Department of	53,279,107	0	0	0	53,279,107	0	0
Susquehanna River Basin Commission	335,000	0	0	335,000	0	0	0
Transportation, Department of	3,213,697	0	0	0	0	3,213,697	0
Rhode Island	4,594,040	45,615	0	3,868,806	139,519	0	540,100
Commerce Corporation	1,119,546	45,615	0	394,312	139,519	0	540,100
Environmental Management, Department of; Marine Fisheries	3,097,546	0	0	3,097,546	0	0	0
Environmental Management, Department of; Narragansett Bay National Estuarine Research Reserve	76,014	0	0	76,014	0	0	0
Water Resources Board	300,934	0	0	300,934	0	0	0
South Carolina	46,800,816	809,303	125,624	27,721,566	15,991,705	1,851,635	300,983
Agriculture, Department of	803,873	803,873	0	0	0	0	0
Disabilities and Special Needs, Department of	14,226,376	0	0	0	14,226,376	0	0
Health and Environmental Control, Department of	1,388,752	0	0	0	1,388,752	0	0
Natural Resources, Department of	25,080,757	0	0	25,080,757	0	0	0
Public Service Authority	30,000	0	30,000	0	0	0	0
Research Authority	726,551	0	95,624	0	376,577	50,000	204,350
Sea Grant Consortium	2,742,872	5,430	0	2,640,809	0	0	96,633
Transportation, Department of	1,801,635	0	0	0	0	1,801,635	0
South Dakota	2,913,274	1,526,155	16,021	50,000	0	1,321,098	0
Corn Utilization Council	310,000	260,000	0	50,000	0	0	0
Oilseeds Council	250,865	250,865	0	0	0	0	0
Pulse Crop Council	2,273	2,273	0	0	0	0	0
Science and Technology Authority	16,021	0	16,021	0	0	0	0
Soybean Research and Promotion Council	375,717	375,717	0	0	0	0	0
Transportation, Department of	1,321,098	0	0	0	0	1,321,098	0
Weed and Pest Control Commission	47,000	47,000	0	0	0	0	0
Wheat Commission	590,300	590,300	0	0	0	0	0
Tennessee	7,039,923	0	106,514	919,243	0	2,650,589	3,363,577
Education, Department of	3,363,577	0	0	0	0	0	3,363,577
Environment and Conservation, Department of	843,184	0	106,514	736,670	0	0	0
Geological Survey	182,573	0	0	182,573	0	0	0
Transportation, Department of	2,650,589	0	0	0	0	2,650,589	0
Texas	205,206,977	1,151,413	0	7,456,321	175,905,076	20,694,167	0
Agriculture, Department of	1,151,413	1,151,413	0	0	0	0	0
Alzheimer's Research and Care Consortium (TARCC)	4,615,313	0	0	0	4,615,313	0	0

TABLE 21

State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2020

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other ^a
Cancer Prevention and Research Institute	169,450,936	0	0	0	169,450,936	0	0
Environmental Quality, Commission on	2,135,774	0	0	2,135,774	0	0	0
Parks and Wildlife Department	4,858,066	0	0	4,858,066	0	0	0
State Health Services, Department of	1,838,827	0	0	0	1,838,827	0	0
Transportation, Department of	20,694,167	0	0	0	0	20,694,167	0
Water Development Board	462,481	0	0	462,481	0	0	0
Utah	9,205,399	0	500,540	5,558,311	4,850	3,141,698	0
Energy Development, Office of	500,540	0	500,540	0	0	0	0
Environmental Quality, Department of	716,389	0	0	716,389	0	0	0
Health, Department of	4,850	0	0	0	4,850	0	0
Natural Resources, Department of	4,841,922	0	0	4,841,922	0	0	0
Transportation, Department of	3,141,698	0	0	0	0	3,141,698	0
Vermont	1,669,900	0	0	282,511	215,000	1,081,391	90,998
Agriculture, Food, and Markets, Agency of	282,511	0	0	282,511	0	0	0
Education, Agency of	90,998	0	0	0	0	0	90,998
Human Services, Agency of	215,000	0	0	0	215,000	0	0
Transportation, Agency of	1,081,391	0	0	0	0	1,081,391	0
Virginia	35,552,565	2,445,328	179,664	5,985,898	3,829,173	19,782,914	3,329,588
Aging and Rehabilitative Services, Department of	32,746	0	0	0	32,746	0	0
Agriculture and Consumer Services, Department of	2,362,121	2,362,121	0	0	0	0	0
Commonwealth Health Research Board	1,399,997	0	0	0	1,399,997	0	0
Environmental Quality, Department of	103,612	0	0	103,612	0	0	0
Forensic Science, Department of	971,793	0	0	0	0	0	971,793
Forestry, Department of	577,211	0	0	577,211	0	0	0
Foundation for Healthy Youth	884,774	0	0	0	884,774	0	0
Innovative Technology, Center for	6,074,557	83,207	179,664	846,179	1,511,656	1,166,056	2,287,795
Institute for Advanced Learning and Research	60,000	0	0	0	0	0	60,000
Marine Resources Commission	1,885,300	0	0	1,885,300	0	0	0
Mines, Minerals and Energy, Department of	903,212	0	0	903,212	0	0	0
Social Services, Department of	10,000	0	0	0	0	0	10,000
Transportation, Department of	18,616,858	0	0	0	0	18,616,858	0
Wildlife Resources, Department of	1,670,384	0	0	1,670,384	0	0	0
Washington	57,239,095	17,505,768	6,731,672	23,572,042	1,260,394	4,890,000	3,279,219
Agriculture, Department of	2,974,886	2,974,886	0	0	0	0	0
Alfalfa Seed Commission	34,000	34,000	0	0	0	0	0
Asparagus Commission	70,000	70,000	0	0	0	0	0

TABLE 21

State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2020

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other ^a
Blueberry Commission	252,900	252,900	0	0	0	0	0
Commerce, Department of	4,686,545	0	4,686,545	0	0	0	0
Dairy Products Commission	30,000	0	0	30,000	0	0	0
Ecology, Department of	1,053,172	0	0	1,053,172	0	0	0
Fish and Wildlife, Department of	9,811,591	0	1,583,549	8,228,042	0	0	0
Fruit Commission	146,911	0	0	0	146,911	0	0
Grain Commission	2,121,448	2,121,448	0	0	0	0	0
Health, Department of	1,113,483	0	0	0	1,113,483	0	0
Hop Commission	281,762	281,762	0	0	0	0	0
Labor and Industries, Department of	3,279,219	0	0	0	0	0	3,279,219
Mint Commission	73,825	73,825	0	0	0	0	0
Natural Resources, Department of	13,196,143	0	461,578	12,734,565	0	0	0
Oilseeds Commission	44,448	44,448	0	0	0	0	0
Pesticide Registration, Commission on	438,075	438,075	0	0	0	0	0
Potato Commission	760,097	760,097	0	0	0	0	0
Puget Sound Partnership	1,526,263	0	0	1,526,263	0	0	0
Pulse Crops Commission	159,243	159,243	0	0	0	0	0
Red Raspberry Commission	307,500	307,500	0	0	0	0	0
Transportation, Department of	4,890,000	0	0	0	0	4,890,000	0
Tree Fruit Research Commission	9,668,382	9,668,382	0	0	0	0	0
Turfgrass Seed Commission	64,018	64,018	0	0	0	0	0
Wine Commission	255,184	255,184	0	0	0	0	0
West Virginia	10,862,315	10,000	1,390,229	3,939,496	712,330	2,028,215	2,782,045
Agriculture, Department of	202,365	10,000	0	0	192,365	0	0
Geological and Economic Survey	1,854,645	0	1,153,441	208,920	0	0	492,284
Higher Education Policy Commission	5,483,928	0	236,788	2,445,414	519,965	0	2,281,761
Justice and Community Services, Division of	8,000	0	0	0	0	0	8,000
Natural Resources, Department of	1,285,162	0	0	1,285,162	0	0	0
Transportation, Department of	2,028,215	0	0	0	0	2,028,215	0
Wisconsin	14,340,014	1,060,099	0	5,423,223	1,000,000	4,106,692	2,750,000
Agriculture, Trade and Consumer Protection, Department of	985,099	985,099	0	0	0	0	0
Economic Development Corporation	3,825,000	75,000	0	0	1,000,000	0	2,750,000
Natural Resources, Department of	5,423,223	0	0	5,423,223	0	0	0
Transportation, Department of	4,106,692	0	0	0	0	4,106,692	0
Wyoming	6,391,060	661,674	1,651,390	2,043,931	61,640	1,240,805	731,620
Agriculture, Department of	561,674	561,674	0	0	0	0	0
Business Council	847,500	100,000	77,520	0	0	0	669,980
Corrections, Department of	123,280	0	0	0	61,640	0	61,640

TABLE 21
State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2020

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other ^a
Enhanced Oil Recovery Institute	1,500,000	0	1,500,000	0	0	0	0
Game and Fish Department	1,689,237	0	0	1,689,237	0	0	0
State Geological Survey	184,676	0	73,870	110,806	0	0	0
Transportation, Department of	1,240,805	0	0	0	0	1,240,805	0
Water Development Office	243,888	0	0	243,888	0	0	0

^a Other functions include, but are not limited to, corrections, criminal justice, education, forensic science, labor, public safety, and social services.
^b U.S. total reflects all 50 states and the District of Columbia.

Source(s):
National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2020.